

## CLAIMS

What we claim is:

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A5
1. A composition comprising an isolated shrimp or prawn androgenic polypeptide.
  2. A neomale shrimp or prawn which does not contain transplanted androgenic gland tissue.
  3. A method of producing a neomale shrimp or prawn comprising:  
treating a female shrimp or prawn with a composition comprising an androgenic polypeptide to  
10 produce a neomale shrimp or prawn.
  4. The method of claim 3, wherein said treating comprises injecting.
  5. The method of claim 3, wherein said treating comprises contacting.
  - 15 6. A method of producing a population of shrimp or prawns having a skewed percentage of females to males, comprising:  
breeding a neomale shrimp or prawn which does not contain transplanted androgenic tissue  
with a corresponding female shrimp or prawn, whereby a population of shrimp or prawns having a  
20 skewed ratio of males to females is produced.
  7. The method of claim 6, wherein said percentage of females is greater than about 80%.
  8. The method of claim 6, wherein said percentage of females is greater than about 90%.
  - 25 9. The method of claim 6, wherein said percentage of females is 100%.
  - 30 10. A population of shrimp or prawns having a skewed percentage of females to males made according to the method of claim 6.
  11. A population of shrimp or prawns having a skewed percentage of females to males of greater than about 90%.
  - 35 12. A method of identifying an agent which binds to an androgenic polypeptide of a shrimp or prawn comprising:
    - a) contacting a candidate agent with an androgenic polypeptide of a shrimp or prawn; and
    - b) detecting the binding of said candidate agent with said polypeptide, whereby an agent which binds to said polypeptide is identified.

